

AMPEX

CC-400 CCTV Multi-Purpose Camera

Compact, quality-crafted... offers exceptional performance and value



IDEAL FOR A LOW-COST CCTV "STARTER" SYSTEM—AS WELL AS ADVANCED MULTI-CAMERA SURVEILLANCE AND MONITORING INSTALLATIONS—THE AMPEX CC-400 CAMERA PROVIDES IMPORTANT ADVANTAGES...

Small and large businesses, factories, banks, stores, hospitals, schools, police departments—all are finding that a CCTV system provides outstanding efficiencies and economies in a wide range of applications.

Now, with the versatile CC-400, Ampex adds to its unequalled combination of equipment and technical help for closed circuit television users. This new high-quality low-cost camera can be utilized in studio production, and is especially ideal for those who want to set up or expand a CCTV monitor/surveillance system.

The value of such a system, of course, is that it gives one "surveillance center" guard or technician the detection and security capability that would otherwise require a number of people. Simply by watching pictures from CC-400 cameras strategically placed to observe people, areas, machinery and a wide variety of other critical subjects both indoors and outdoors, the monitor attendant can instantly alert others to take appropriate action when and where required.

Moreover in many applications—some of which are described on the back page—a system including a videotape recorder permits instant or future replay of monitored pictures for closer examination, analysis or evidence.

The CC-400 camera features automatic electronic circuitry and simple "set and forget" controls. With the addition of the AC-115 plug-in module, the CC-400 has an RS-330 type, positive 2:1 interlace output. A single cable connects to a television monitor. The C-mount lens assembly enables the user to meet his specific requirements by selecting from a complete assortment of optional Ampex lenses, including wide-angle, telephoto and zoom lenses.

AMPEX

CC-400

CCTV Multi-Purpose Camera

APPLICATIONS

Designed for reliable continuous service, the Ampex CC-400 Camera is ideal in a wide range of applications like these:

PLANT SECURITY: By watching pictures from a number of CC-400 cameras, a single "surveillance center" guard can observe factory exits and entrances, loading docks, inventory and supply areas, parking lots, production lines and other important plant security locations.

LAW ENFORCEMENT: Police find CCTV a vital tool in many applications to detect crime, and to apprehend and prosecute suspects. Closed circuit systems are also used to observe jail cells, corridors, exercise areas and other locations where surveillance of prisoner activity is considered an essential precaution.

CCTV STUDIO PRODUCTION: The CC-400 is ideal as a black-and-white film chain camera, or that 3rd or 4th studio camera that is used primarily for graphics and other fixed shots not requiring a viewfinder.

BANKS AND SAVINGS & LOAN ASSOCIATIONS: Ampex CC-400 cameras can be placed for monitoring tellers' booths, "drive-up" windows, entrances, vault areas and other indoor and outdoor locations. When detecting an unusual occurrence or theft attempt, the monitor guard can instantly alert others while videotape recording the actual sequence for later playback.

STORES AND SUPER-MARKETS: Closed circuit television systems are successfully reducing shop-lifting in all types of retail establishments. Ampex CC-400 cameras can be positioned to monitor aisles, special displays, check-out counters, doors and other critical areas.

HOSPITALS: Medical facilities of all kinds are using CCTV for patient monitoring, and for complete intensive care, surgical and ward observation. In addition, many systems incorporate applications for general hospital security.

EDUCATION: Classroom monitoring aids in assessing student reactions, discipline and teacher evaluation. The wide variety of other CCTV applications includes use with a microscope for group TV viewing of minute objects.

AMPEX CORPORATION

Educational and Industrial Products Division
265 WHISMAN ROAD
MOUNTAIN VIEW, CALIFORNIA 94040

Descriptions and specifications subject to change without notice or obligation.

SPECIFICATIONS

The following is in accord with EIA Standard RS-312, Engineering Specifications Format for CCTV Camera Equipment.

1. Electrical

- 1.1 **INPUT VOLTAGE:** 120V \pm 10% 60 Hz.
- 1.2 **INPUT POWER:** 21 Watts.
- 1.3 **VERTICAL SWEEP RATE:** 60 Hz.
- 1.4 **HORIZONTAL SWEEP RATE:** 15,750 Hz.
- 1.5 **SCANNING:** Random Interlace or accepts a plug-in module which provides RS-330 sync or accepts external horizontal and vertical drives.
- 1.6 **TYPE OF SYNC AND BLANKING WAVEFORM:** Similar to RS-330 in random form or RS-330 with serrations from optional plug-in module.
- 1.7 **CAMERA TUBE TYPE:** 1" Vidicon, type 8758 GTV or equivalent.
- 1.8 **SENSITIVITY:** A scene brightness of 5 foot candles produces a 1.0 volt composite video signal.
- 1.8.1 **SIGNAL-TO-NOISE:** 40 db signal to rms noise at 4.5 MHz.
- 1.9 **RESOLUTION:** Video—550 TV lines. RF—350 TV lines.
- 1.10 **AUTOMATIC LIGHT RANGE:** 4000 to 1.
- 1.11 **RESOLUTION STABILITY VS. TEMPERATURE:** Less than 50 TV lines over a temperature range from -5°C to $+45^{\circ}\text{C}$ (22°F to 112°F).
- 1.12 **RESOLUTION STABILITY VS. INPUT VARIATION:** Less than 50 TV lines over a range of 120V \pm 10%.
- 1.13 **GRAY SCALE RENDITION:** Ten levels.
- 1.14 **SIGNAL TRANSMISSION DISTANCE:** Not applicable.
- 1.15 **OUTPUT VIDEO:** Type—Random or 2:1 interlace. Level—1.0 Volts composite video signal. Polarity—Sync negative. Impedance—75 Ohms.
- 1.16 **GEOMETRIC DISTORTION:** No more than 3%.
- 1.17 **SCAN FAILURE PROTECTION:** Fail-safe circuit design.
- 1.18 **HORIZONTAL SCAN FREQUENCY:** 15,750 Hz Horizontal oscillation or X-tal controlled oscillator on optional RS-330 sync module or external drive.
- 1.19 **VERTICAL SCAN FREQUENCY:** 60 Hz Vertical oscillator locked to the line or an optional RS-330 sync module binary counter referenced from the X-tal oscillator or external drive.
- 1.20 **DC COMPONENT TRANSMISSION:** AC coupled output.
- 1.21 **AUTOMATIC IMAGE TUBE PROTECTION:** Not available as standard.

2. Mechanical

- 2.1 **DIMENSIONS:** 4 $\frac{1}{8}$ " (w) x 6 $\frac{3}{8}$ " (h) x 11" (d).
- 2.2 **WEIGHT:** 9 lbs. less lens.
- 2.3 **TYPE OF LENS MOUNT:** "C" mount.
- 2.4 **REMOTE CONTROL PROVISIONS:** Not applicable.
- 2.5 **CAMERA MOUNT:** $\frac{1}{4}$ -20 thread tripod mount on base.
- 2.6 **TYPE OF CONNECTOR:** Two BNC.
- 2.7 **FOCUS ADJUSTMENT:** Optical focus adjustment is provided on the back panel of the camera.

3. Environmental

- 3.1 **AMBIENT TEMPERATURE LIMITS:** -5°C to $+45^{\circ}\text{C}$ (22°F to 112°F).
- 3.2 **AIR PRESSURE LIMITS:** 10,000 feet.
- 3.3 **VIBRATION LIMITS:** Standard commercial shipping.
- 3.4 **SHOCK LIMITS:** Standard commercial shipping.
- 3.5 **HUMIDITY LIMITS:** 30% to 90%.

Rear Panel

